Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 1. (Previously Presented) An isolated, purified, or recombinant nucleic acid comprising a polyketide modifying gene, wherein said gene encodes a polyketide modifying enzyme selected from the group consisting of MegR, MegCIV, MegCV, MegBVI, MegBIII, MegL, and MegM, wherein MegR has the sequence encoded by nucleotides 52-942 of SEQ ID NO:1, MegCIV has the sequence encoded by nucleotides 3893-5098 of SEQ ID NO:1, MegCV has the sequence encoded by nucleotides 2386-3855 of SEQ ID NO:1, MegBVI has the sequence encoded by nucleotides 5095-6558 of SEQ ID NO:1, MegBIII has the sequence encoded by nucleotides 12316-13548 of SEQ ID NO:1, MegL has the sequence encoded by nucleotides 14908-15972 of SEQ ID NO:1, and MegM has the sequence encoded by nucleotides 13928-14911 of SEO ID NO:1.
- (Previously Presented) The nucleic acid of Claim 1, wherein said gene encodes a
 polyketide modifying enzyme selected from the group consisting of MegCV, MegCIV, and
 MegBVI.
- (Previously Presented) The nucleic acid of Claim 1, wherein said gene encodes a
 polyketide modifying enzyme selected from the group consisting of MegBIII, MegM, and MegL.
 - 4-15. (Canceled).
 - 16. (Original) An expression vector comprising the nucleic acid of claim 1.
 - (Original) A host cell comprising the nucleic acid of claim 1.
 - 18-20: (Canceled).

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- 21. (Currently Amended) A method of producing a modified polyketide, said method comprising culturing a recombinant cell transformed witheomprising a nucleic acid of claim 1 under conditions in which the cell expresses a product of a gene encoded by the nucleic acid of claim 1, and under conditions in which an[[the]] unmodified polyketide is present, thereby producing the modified polyketide.
- 22. (Original) The method of claim 21 wherein said cell further comprises a recombinant nucleic acid encoding at least one module of a polyketide synthase.
 - (Canceled).
- (Previously Presented) The nucleic acid of claim 1 that encodes the MegL protein and/or the Meg M protein.
- 25. (Currently Amended) An isolated, purified, or recombinant nucleic acid comprising a polyketide modifying gene, wherein said gene encodes a MegL and/or a MegM polyketide modifying enzyme, and wherein said nucleic acid optionally comprises a polyketide modifying gene encoding a polyketide modifying enzyme selected from the group consisting of MegR, MegCIV, MegCV, MegBVI, and MegBIII, wherein MegR has the sequence encoded by nucleotides 52-942 of SEQ ID NO:1, MegCIV has the sequence encoded by nucleotides 3893-5098 of SEQ ID NO:1, MegCV has the sequence encoded by nucleotides 2386-3855 of SEQ ID NO:1, MegBVI has the sequence encoded by nucleotides 5095-6558 of SEQ ID NO:1, MegBIII has the sequence encoded by nucleotides 12316-13548 of SEQ ID NO:1, MegL has the sequence encoded by nucleotides 13928-14911 of SEQ ID NO:1) and MegM has the sequence encoded by nucleotides 13928-14911 of SEQ ID NO:1) and wherein the [[The]] nucleic acid of elaim 24 that does not comprise the S. erythraea MegBIII gene (nucleotides 12316-13548 of SEQ ID NO:1) and/or does not comprise the S. erythraea MegBIII gene (nucleotides 12316-13548 of SEQ ID NO:1).
- (Currently Amended) The nucleic acid of claim <u>25</u>[[24]] that does not comprise the S. erythraea Meg CII gene (nucleotides 6962-8038 of SEQ ID NO:1).

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- 27. (Currently Amended) The nucleic acid of claim <u>25</u>[[24]] that does not comprise the *S. erythraea* MegBIII gene (nucleotides 12316-13548 of SEQ ID NO:1).
- 28. (Currently Amended) An isolated, purified, or recombinant nucleic acid comprising a polyketide modifying gene, wherein said gene encodes a MegBVI polyketide modifying enzyme, and wherein said nucleic acid optionally comprises a polyketide modifying gene encoding a polyketide modifying enzyme selected from the group consisting of MegR, MegCIV, MegCV, MegBIII, MegL, and MegM, wherein MegR has the sequence encoded by nucleotides 52-942 of SEQ ID NO:1, MegCIV has the sequence encoded by nucleotides 3893-5098 of SEQ ID NO:1, MegCV has the sequence encoded by nucleotides 2386-3855 of SEQ ID NO:1, MegBVI has the sequence encoded by nucleotides 5095-6558 of SEQ ID NO:1 MegBIII has the sequence encoded by nucleotides 12316-13548 of SEQ ID NO:1, MegL has the sequence encoded by nucleotides 14908-15972 of SEQ ID NO:1, and MegM has the sequence encoded by nucleotides 13928-14911 of SEQ ID NO:1) The nucleic acid of claim 24 that encodes the MegBVI enzyme.
- (Currently Amended) The nucleic acid of claim <u>25</u>[[28]] that encodes the MegBVI enzyme.
- 30. (Previously Presented) An expression vector comprising the nucleic acid of claim
 - 31. (Previously Presented) A host cell comprising the nucleic acid of claim 30.
- (New) The nucleic acid of Claim 1, which does not comprise a gene encoding MegY or a gene encoding MegCII.